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Water Supply Outlook For Idaho



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
MAY 1, 1980

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: THE SNOTEL PROJECT CENTRAL COMPUTER FACILITIES IN PORTLAND, OREGON. THE TERMINAL, PRINTER, COMPUTER AND TAPE DRIVES HAVE NOT COMPLETELY REPLACED THE SNOW SAMPLING TUBES SEEN IN THE FOREGROUND.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COÖPERATIVE SNOW SURVEYS

Issued by

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WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR MAY 1, 1980

The water supply outlook for Idaho during the 1980 season is adequate for the Snake River Basin and its tributaries, the Bear River and its tributaries and the Priest River and Kootenai River in the northern part of the state. Some shortage can be expected in the Clearwater watershed with considerable shortage probable on the Spokane and Palouse drainages. Forecasts of seasonal runoff range from a low of 58 percent of average for the Spokane River at Post Falls to 102 percent of normal for the Cub River near Preston.

The National Weather Service reported below normal precipitation and above average temperatures during April, statewide.

The April 1 snow covered area melted off unusually fast during the month with only one-third of the area showing snow cover near May 1. Lower elevation snow is gone, middle elevation is nearly depleted and the high elevation snowpack is below to well below normal. Runoff during April, though generally above normal, was not as great as expected from the amount of snow melt experienced.

Reservoir storage is good to excellent with a combination of sixteen irrigation reservoirs in the Snake Basin showing current storage of 83 percent of capacity and 115 percent of average.

RESERVOIR STORAGE (1,000 Ac. Ft.)

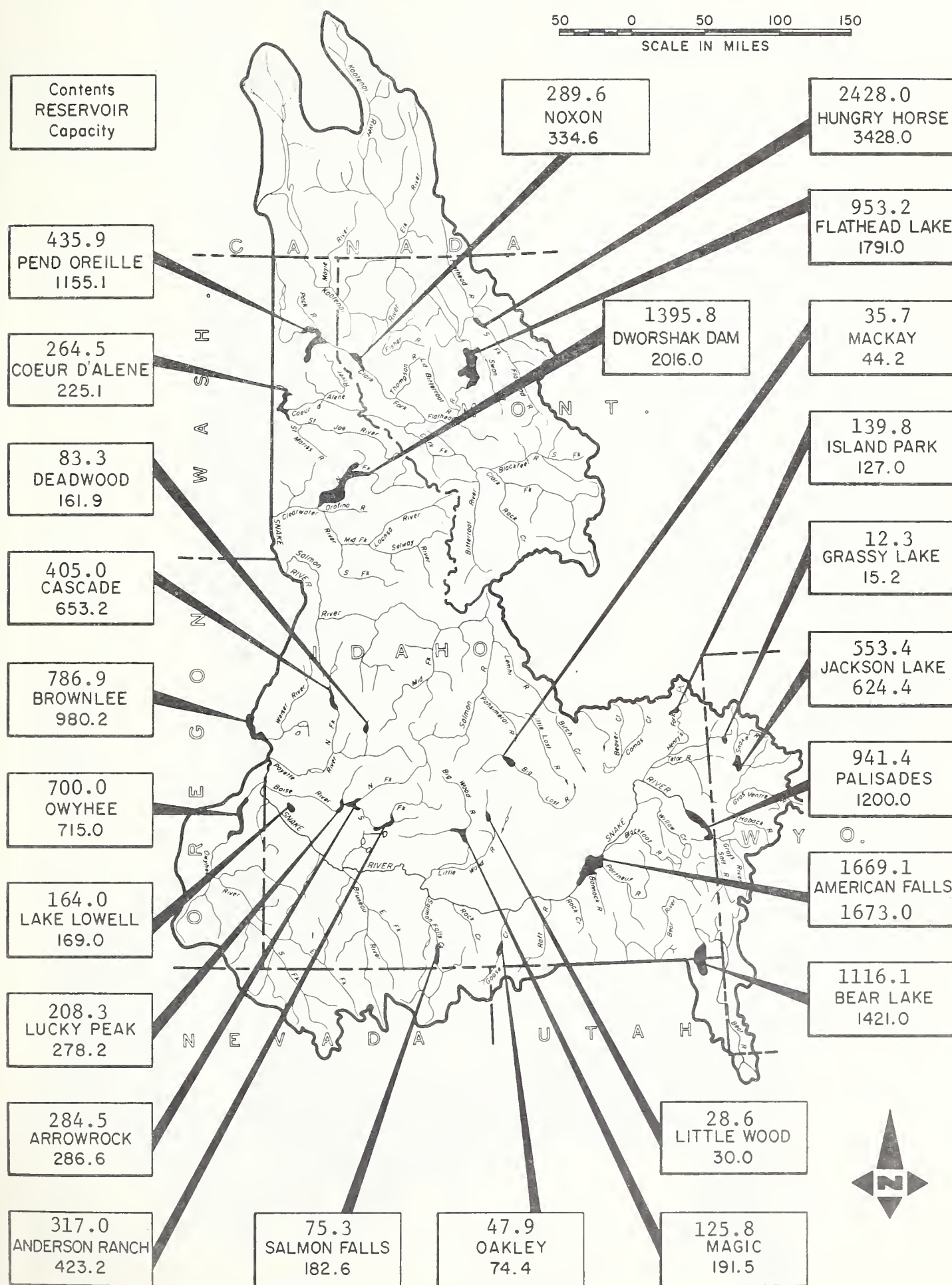
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	2428.0	2285.0	1896.0
Flathead	1791.0	953.2	738.5	915.3
Pend Oreille	1155.1	435.9	467.1	483.0
Noxon	334.6	289.6	278.1	141.7
<u>Spokane</u>				
Coeur d'Alene	225.1	264.5	260.5	238.4
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	624.4	553.4	487.9	572.3
Palisades	1200.0	941.4	710.1	666.3
Americian Falls	1673.0	1669.1	1639.9	1488.4
Island Park	127.0	139.8	99.5	126.3
Grassy Lake	15.2	12.3	13.0	11.1
Brownlee	980.2	786.9	725.3	406.4
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	47.9	46.6	37.8
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	75.3	64.7	81.0
<u>Big Lost</u>				
Mackay	44.2	35.7	43.8	34.0
<u>Big Wood</u>				
Magic	191.5	125.8	165.8	172.7
<u>Little Wood</u>				
Little Wood	30.0	28.6	30.0	24.5
<u>Fish Creek</u>				
Carey Valley	14.4	12.9	9.5	--
<u>Boise</u>				
Anderson Ranch	423.2	317.0	344.1	289.3
Arrowrock	286.6	284.5	263.6	213.2
Lucky Peak	278.2	208.3	212.9	134.1
Lake Lowell (Deer Flat)	169.0	164.0	162.8	151.2
<u>Owyhee</u>				
Owyhee	715.0	700.0	701.3	591.2
<u>Payette</u>				
Cascade	653.2	405.0	389.9	330.9
Deadwood	161.9	83.3	97.1	98.2
<u>Weiser</u>				
Mann Creek	11.1	11.4	11.3	--
<u>Clearwater</u>				
Dworshak	2016.0	1395.8	961.1	--
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1116.1	1091.7	1095.0

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MAY 1, 1980

50 0 50 100 150
SCALE IN MILES



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]

UPPER COLUMBIA BASIN

KOOTENAI RIVER

Leonla	(at)	6590	81	May-Sep	--	8116
		5590	80	May-Jul	--	6966
		4300	80	May-Jun	--	5402

PEND OREILLE RIVERClark Fork River

Whitehorse Rapids	(at)	7590	62	May-Sep	--	12207
		6740	62	May-Jul	--	10945
		5600	62	May-Jun	--	9059

Priest River

Priest River <u>1/</u>	(nr)	580	80	May-Sep	--	723
		540	81	May-Jul	--	669

SPOKANE RIVER

Post Falls <u>2/</u>	(at)	1200	58	May-Sep	--	2052
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St. Joe River

Calder	(at)	645	61	May-Sep	--	1053
		600	61	May-Jul	--	984

SNAKE RIVER BASIN

SNAKE RIVER - MAIN STEM

Moran <u>3/</u>	(at)	750	83	Apr-Sep	--	903
Palisades Inflow		3250	84	Apr-Sep	--	3863
Heise <u>4/</u>	(nr)	3100	81	May-Sep	--	3824
Blackfoot <u>5/</u>	(nr)	3450	83	May-Jul	--	4143
Weiser	(at)	4860	90	May-Sep	--	5408

Henrys Fork

Ashton <u>6/</u>	(nr)	500	79	May-Sep	--	634
Rexburg <u>7/</u>	(nr)	1080	78	May-Sep	--	1387

Portneuf River

Topaz	(at)	65	92	May-Sep	--	71
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Oakley Reservoir Inflow

		22	92	May-Sep	--	24
--	--	----	----	---------	----	----

Salmon Falls Creek

San Jacinto	(nr)	60	95	May-Sep	--	63
		56	97	May-Jul	--	58

Bruneau River

Hot Springs	(nr)	170	93	May-Sep	--	183
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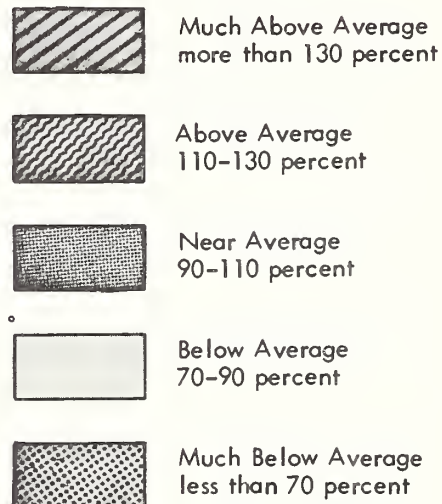
^(c) Assuming normal meteorological conditions.

1963-1977 period.

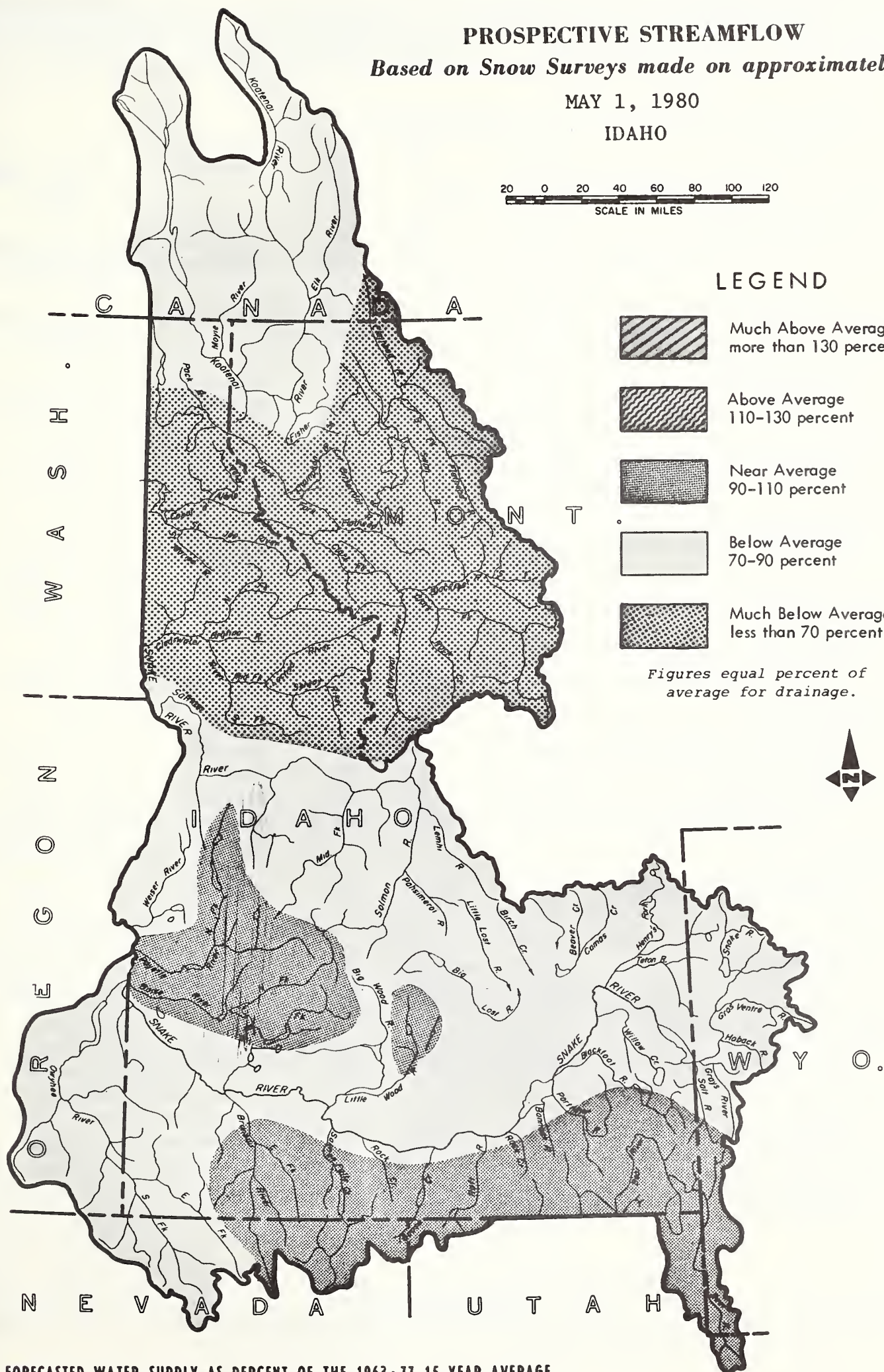
PROSPECTIVE STREAMFLOW
Based on Snow Surveys made on approximately
MAY 1, 1980
IDAHO

20 0 20 40 60 80 100 120
 SCALE IN MILES

LEGEND



*Figures equal percent of
average for drainage.*



STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR			PAST RECORD	
BASIN, STREAM and/or FORECAST POINT		FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
		Thousand Acre Feet	Percent of Average		Last Year	Average [†]
<u>Little Lost River</u>						
Howe	(nr)	32	82	May-Sep	--	39
Wet Creek	(bl)	30	81	May-Sep	--	37
<u>Big Lost River</u>						
Howell Ranch	(at)	180	84	May-Sep	--	214
		125	87	May-Jun	--	144
Mackay <u>8/</u>	(nr)	155	81	May-Sep	--	191
<u>Big Wood River</u>						
Magic Reservoir <u>9/</u>		200	87	May-Sep	--	229
Inflow		190	89	May-Jul	--	213
<u>Little Wood River</u>						
Carey	(nr)	73	91	May-Sep	--	80
<u>Boise River</u>						
Twin Springs	(nr)	575	94	May-Sep	--	612
		530	95	May-Jul	--	559
Boise <u>10/</u>	(nr)	1240	94	May-Sep	--	1326
<u>South Fork</u>						
Anderson Dam <u>11/</u>	(at)	480	94	May-Sep	--	511
<u>Owyhee River</u>						
Gold Cr., Nev. <u>12/</u>	(nr)	10	83	May-Jul	--	12
Owyhee, Nev.	(nr)	42	82	May-Jul	--	51
Lake Owyhee		184	82	May-Sep	222	224
net Inflow <u>13/</u>		160	81	May-Jul	190	197
<u>Payette River</u>						
Horseshoe Bend <u>14/</u>	(nr)	1530	98	May-Sep	--	1567
<u>North Fork</u>						
Cascade <u>15/</u>	(at)	470	98	May-Sep	--	480
Banks <u>15/</u>	(nr)	580	97	May-Sep	--	599
<u>Weiser River</u>						
Weiser	(nr)	270	89	May-Sep	--	304
<u>Salmon River</u>						
Whitebird	(at)	5330	81	May-Sep	--	6581
<u>Clearwater River</u>						
Spalding	(at)	4700	66	May-Sep	--	7081

(c) Assuming normal meteorological conditions.

1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]

GREAT BASINBEAR RIVER

Harer (at) 268 99 May-Sep -- 271

Montpelier Creek

Montpelier (nr) 12 100 May-Sep -- 12

Cub River

Preston (nr) 50 102 May-Sep -- 49

Cooperative forecasts released by Soil Conservation Service and National Weather Service.

- 1/ Observed flow corrected for storage in Priest Lake.
- 2/ Observed flow corrected for storage in Coeur d'Alene Lake.
- 3/ Corrected for storage in Jackson Lake.
- 4/ Corrected for storage in Jackson Lake and Palisades.
- 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot.
- 6/ Corrected for storage in Henry's Lake and Island Park Reservoir.
- 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.
- 8/ Observed flow corrected for storage in Mackay Reservoir.
- 9/ Combined flow Big Wood River near Bellevue and Camas Creek near Blaine.
- 10/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
- 11/ Corrected for storage in Anderson Ranch Reservoir.
- 12/ Corrected for storage in Wild Horse Reservoir.
- 13/ From WPRS records of inflow.
- 14/ Corrected for storage in Cascade and Deadwood Reservoirs.
- 15/ Corrected for storage in Cascade Reservoir.

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Winter		Fall - Winter	
	April 1980		Nov. 79 - April 80	
	Observed	Departure <u>2/</u>	Observed	Departure <u>2/</u>
Kootenai, Canada & U.S.	2.03	+ .41	13.34	- 1.67
Flathead	1.31	- .33	9.78	- .59
Clark Fork	1.20	- .13	7.54	- 1.79
Pend Oreille-Spokane	1.99	+ .17	15.33	- 4.04
Upper Snake	1.04	- .75	10.23	- 1.67
Snow River Plain	.53	- .46	6.02	- .05
Salmon-Payette-Boise	1.48	+ .05	12.11	- 1.11
Clearwater	1.98	-1.14	16.04	- 4.96
Owyhee-Malheur	.70	- .05	6.28	- .14

1/ Preliminary analysis and data by the National Weather Service and Meteorological Service of Canada.

2/ Departure from 15-year (1963-77) drainage division average.

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average /

UPPER COLUMBIA RIVER BASINKOOTENAI RIVER

#Bear Mountain	5400	4/27	90	46.8	45.9	67.7*
Halverson Creek	4850	4/27	72	38.8	36.5	43.5*
Smith Creek	4800	4/29	71	32.5	31.4	47.4

PEND OREILLE - PRIEST RIVER

Bear Mountain	5400	4/27	90	46.8	45.9	67.7*
Benton Meadow	2370	4/29	0	0.0	0.0	0.0*
Benton Spring	4900	4/29	9	4.0	16.7	16.7
Schweitzer Bowl	4500	5/1	21	10.7	21.3	26.8*
Schweitzer Ridge	6200	5/1	80	42.8	37.1	47.5*

SPOKANE RIVER

Above Burke	4100	4/30	15	6.3	18.5	19.7*
#Forty-nine Meadows	4840	5/1	19	7.2	22.6	26.9
Granite Peak	6000	5/1	72	28.5	38.1	47.6*
Lookout	5120	4/30	40	17.4	28.2	35.4
#Lost Lake	6080	5/1	85	34.7	47.4	62.5
Lower Sands Creek	3400	4/28	18	6.4	18.3	18.3
Sherwin	3200	4/25	0	0.0	7.0	7.2*

LOWER SNAKE RIVER BASINCLEARWATER

Breezy Saddle	5000	5/1	23	8.9	25.1	--
Buck Meadows	5650	5/1	36	14.6	24.0	29.9*
Cayuse Airstrip	3500	5/1	0	0.0	0.0	1.0*
Coolwater Mountain	6200	5/1	61	22.8	34.7	35.5*
Crater Meadows	6100	5/1	68	28.8	40.6	47.8
Crooked Fork	3600	4/30	0	0.0	0.0	3.5*
Elk Butte	5420	5/1	28	11.4	--	34.1
Fish Lake Airstrip	5650	5/1	70	30.3	37.4	41.4*
Forty-nine Meadows	4840	5/1	19	7.2	22.6	26.9
Goat Lake	6500	5/1	83	37.0	45.0	51.9*
#Granite Peak	6000	5/1	72	28.5	38.1	47.6*
Hemlock Butte	5500	5/1	65	26.6	44.9	52.4
#Hoodoo Basin	Mont. 6000	4/27	89	44.0	49.6	55.6*
#Hoodoo Creek	Mont. 5900	4/27	81	39.8	49.3	52.0
Kit Carson Pasture	4950	4/27	0	0.0	2.6	--
Lolo Pass	5240	4/30	38	17.1	30.8	31.4
Lost Lake	6080	5/1	85	34.7	47.4	62.5

(b) 1963-77, 15 year period. *Not located directly on this drainage. - Estimated 1963-77 15 year Average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radiative Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^{1/2}
Mountain Meadows	6300	5/1	25	9.1	19.9	26.3*
#Nez Perce Pass	Mont. 6575	4/27	13	4.8	18.5	17.4
Pierce Ranger Station	3170	5/1	0	0.0	0.0	1.9
Savage Pass	6170	4/30	46	18.6	27.8	29.3*
Shanghai Summit	4600	5/1	4	1.6	23.0	23.1

SALMON RIVER

#Banner Summit	7040	4/29	61	26.8	21.2	--
Big Creek Summit	6600	4/25	91	39.7	30.9	37.8
#Boulder Creek	5500	4/28	11	4.8	11.6	16.8
Brundage Mountain	7560	4/28	93	46.0	40.0	52.4*
#Deadwood Summit	6750	4/29	94	44.8	31.0	48.2*
#Galena Summit	8780	4/28	50	21.2	18.0	26.9
#Gibbons Pass	Mont. 7100	4/29	29	13.9	24.4	25.3
#Lemhi Pass	Mont. 7480	4/28	0	0.0	11.3	9.2
#Lemhi Ridge	Mont. 8100	4/28	14	4.8	15.1	10.6*
Mill Creek Summit	8800	4/29	48	21.2	16.5	25.9
Moose Creek	6200	4/30	16	4.2	12.1	16.6*
Morgan Creek	7580	4/29	13	5.4	9.2	13.9
#Rock Flat Summit	5340	4/28	29	12.8	13.8	17.9
#Secesh Summit	6520	4/26	73	34.3	27.5	36.9*
#Squaw Meadow	5900	4/26	76	36.4	27.2	36.1*
Vienna Mine	8950	4/29	83	40.8	30.1	39.9*

LEMHI RIVER

Above Gilmore	8250	4/30	0	0.0	9.3	11.0*
Meadow Lake	9200	4/30	31	11.9	16.9	24.5*

MIDDLE SNAKE RIVER BASIN - NORTHSIDE

LITTLE LOST RIVER

Hilts Creek	8000	4/29	16	6.6	--	--
Wet Creek Summit	7760	4/29	8	3.2	--	13.8*

BIG LOST RIVER

Bear Canyon	7920	4/26	45	17.4	13.5	18.9*
Copper Basin	7650	4/26	14	5.6	5.2	8.5*
Fishpole Lake	9350	4/26	58	24.2	16.6	--
Lost-Wood Divide	7900	4/26	43	18.6	15.6	24.8*
Stickney Mill	7450	4/26	15	6.2	5.6	6.5*

(b) 1963-77, 15 year period. # Not located directly on this drainage. ¹ Estimated 1963-77, 15 year average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^{1/}

LITTLE WOOD RIVER

#Bear Canyon	7920	4/26	45	17.4	13.5	18.9*
Garfield Ranger Station	6560	4/26	5	2.2	0.0	2.6*
Muldoon	6300	4/26	0	0.0	0.0	0.6*
Swede Peak	7640	4/26	33	14.4	11.2	16.7*

BIG WOOD RIVER

#Couch Summit	6850	4/28	37	14.9	7.3	14.9*
Dollarhide Summit	8400	4/29	56	23.2	19.7	24.3*
Galena	7300	4/28	23	10.7	8.8	15.9
Galena Summit	8780	4/28	50	21.2	18.0	26.9
Graham Ranch	6280	4/28	20	7.8	5.6	9.2*
#Lost-Wood Divide	7900	4/26	43	18.6	15.6	24.8*
Mascot Mine	7760	4/26	33	13.3	10.6	15.5*
Mount Baldy	9000	4/29	54	21.4	14.7	23.6*
Soldier Ranger Station	6100	4/28	0	0.0	0.0	1.1*
#Vienna Mine	8950	4/29	83	40.8	30.1	39.9*

BOISE RIVER

Atlanta Summit	7500	4/29	74	32.8	25.0	36.6
Bad Bear	5500	5/1	0	0.0	0.0	6.8
#Bogus Basin	6340	5/1	40	17.8	17.5	24.0*
Bogus Basin Road	5520	5/1	0	0.0	0.0	0.4*
Couch Summit	6850	4/28	37	14.9	7.3	14.9*
#Dollarhide Summit	8400	4/29	56	23.2	19.7	24.3*
Graham Guard Station	5690	4/29	10	4.7	0.0	--
Jackson Peak	7070	4/29	68	30.7	21.8	26.8*
Moore's Creek Summit	6100	5/1	67	30.0	22.5	32.6
#Soldier Ranger Station	6100	4/28	0	0.0	0.0	1.1*
Trinity Mountain	7780	4/29	86	43.9	29.7	44.1*
#Vienna Mine	8950	4/29	83	40.8	30.1	39.9*

PAYETTE RIVER

Banner Summit	7040	4/29	61	26.8	21.2	--
#Big Creek Summit	6600	4/25	91	39.7	30.9	37.8
Bogus Basin	6340	5/1	40	17.8	17.5	24.0*
#Brundage Mountain	7560	4/28	93	46.0	40.0	52.4*
Cozy Cove	5400	4/29	9	4.3	1.2	10.7*
Crawford Ranger Station	4800	4/25	0	0.0	0.0	0.4
Deadwood Airstrip	5440	4/29	11	5.4	2.6	8.6*
Deadwood Summit	7000	4/29	94	44.8	31.0	48.2*
#Jackson Peak	7070	4/29	68	30.7	21.8	26.8*
Lake Fork	6000	4/26	21	8.2	12.0	14.1*
Rock Flat Summit	5340	4/28	29	12.8	13.8	17.9
Secesh Summit	6520	4/26	73	34.3	27.5	36.9*
Squaw Meadow	5900	4/26	76	36.4	27.2	36.1*

(b) 1963-77, 15 year period. # Not located directly on this drainage. * Estimated 1963-77, 15 year Average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ¹

WEISER RIVER

Boulder Creek	5500	4/28	11	4.8	11.6	16.8
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MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

Howell Canyon	7980	4/27	42	18.8	15.7	23.7*
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SALMON FALLS CREEK

#Bear Creek	Nev.	7800	5/2	38	15.2	23.1	21.2*
Goat Creek	Nev.	8800	5/1	46	18.3	17.5	20.8
Magic Mountain		6700	5/1	22	9.1	20.9	18.8*
#Pole Creek Rgr. Sta.	Nev.	8330	5/1	46	18.6	21.4	25.8*

BRUNEAU RIVER

Bear Creek	Nev.	7800	5/2	38	15.2	23.1	21.2*
Pole Creek Rgr. Sta.	Nev.	8330	5/1	46	18.6	21.4	25.8*
#Seventy-six Creek	Nev.	7100	5/2	0	0.0	11.3	4.7*

OWYHEE RIVER

#Bear Creek	Nev.	7800	5/2	38	15.2	23.1	21.2*
#Seventy-six Creek	Nev.	7100	5/2	0	0.0	11.3	4.7*
South Mountain		6340	4/27	19	9.2	11.6	7.1*

UPPER SNAKE RIVER BASINHENRYS FORK RIVER

Big Springs		6400	4/28	12	4.4	12.6	17.7
Grassy Lake	Wyo.	7230	4/28	53	23.5	39.6	36.4
Island Park		6290	4/28	0	0.0	9.8	11.4
Sawtell Mountain		8720	4/28	70	33.5	35.4	37.1*
Targhee Pass		7000	4/28	0	0.0	12.8	16.2*
Valley View		6740	4/28	0	0.0	13.0	14.5
White Elephant		7700	4/28	38	15.7	22.8	--

(b) 1963-77, 15 year period. # Not located directly on this drainage. * Estimated 1963-77, 15 year Average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ⁶

TETON RIVER

Freds Mountain	Wyo.	8150	5/1	33	14.3	4.7	21.1*
Indian Meadows	Wyo.	8240	5/3	55	25.5	35.8	39.9*
Jackpine Creek	Wyo.	7350	5/3	43	9.9	21.8	24.1*
McRenolds Reservoir		6800	5/3	0	0.0	19.9	19.8*
Phillips Bench	Wyo.	8200	5/1	56	23.7	33.2	31.5*
Pine Creek Pass		6750	5/1	0	0.0	15.2	14.8
State Line		6650	5/1	0	0.0	15.2	10.7
Teton Pass W.S.	Wyo.	8400	5/1	42	17.4	31.7	28.9*

BLACKFOOT RIVER

Slug Creek Divide		7230	4/30	19	7.9	10.5	17.0*
Somsen Ranch		7000	5/2	12	4.5	--	--
Sulphur Peak		7070	5/2	12	4.8	--	--
Wood Canyon Divide		7450	5/2	21	9.0	--	--

GREAT BASINBEAR RIVER

Emigrant Summit		7380	4/30	41	19.4	19.1	24.9*
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MONTPELIER CREEK

Giveout		6840	4/30	15	6.2	7.4	6.9*
Little Beaver		6970	4/30	18	7.9	5.8	11.4*
Lower Home Canyon		7640	5/1	17	7.0	9.0	11.1*
Montpelier Creek		6570	4/30	0	0.0	0.0	1.2*
Upper Home Canyon		8560	5/1	49	20.1	20.4	24.5*
Whiskey Flat		6960	4/30	0	0.0	0.0	4.5*

CUB RIVER

Cub River Rgr. Sta.		5400	4/28	0	0.0	0.0	0.0
#Franklin Basin		8000	4/28	49	23.0	25.0	--
Willow Flat		6100	4/28	6	2.3	10.2	5.5*

(b) 1963-77, 15 year period. # Not located directly on this drainage. * Estimated 1963-77 15 year Average. (A) Aerial observation. Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Statistical Reporting Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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with the Snow Survey"*

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